

CLAIMS

What is claimed is:

1. A trigonal prism turning display device for advertisement comprising:

six trigonal prisms arranged in a shape of a regular triangle, each of said six trigonal prisms having the three sides on each of which an advertising screen is displayed;

upper and lower turning discs for supporting said six trigonal prisms and rotating together with a main shaft;

driving means mounted under said lower turning disc, for rotating said six trigonal prisms;

disc-shaped device supporting means mounted under said driving means and fixed to the inner surface of a cylindrical housing at the outer peripheral portion thereof, for supporting said main shaft and said driving means; and

a motor disposed under said disc type device supporting means in such a manner as to be connected to the lower end of said main shaft by a coupler.

2. The trigonal prism turning display device according to claim 1, wherein said main shaft is coupled to the shaft of said motor through said coupler, at the lower end thereof, is secured on the central portion of said lower turning disc, at the central portion thereof, and is secured on the central portion of said upper turning disc, at the upper end thereof, such that said upper and lower turning discs are rotated together with said main shaft that delivers the rotating force of said motor to said driving means.

3. The trigonal prism turning display device according to claim 1, wherein said cylindrical housing is made of a transparent acryl and places a fixing member that is adapted to fix said main shaft in the central portion of the upper surface thereof, said

six trigonal prisms in the upper portion thereof, said driving means in the central portion thereof, and said motor in the lower portion thereof.

4. The trigonal prism turning display device according to claim 1, wherein said driving means comprises: a base gear coupled to said main shaft through a bolt that is fixedly installed on the central portion of said device supporting part; a pair of crankshaft gears engaged with said base gear at intervals of 180° in a rotating direction of said base gear; a pair of connecting rods fixedly mounted at the margins of crank connecting discs that are secured on the lower surfaces of said crankshaft gears; a pair of crankshafts connected to the frontal ends of said connecting rods; a pair of partial gears fixed on said crankshafts at the rotating central portions thereof; first and second trigonal prism power transmission gears engaged with said partial gears at the lower portion thereof so as to be rotated as said partial gears are rotated; first trigonal prism turning gears that are engaged at intervals of 120° with said first trigonal prism power transmission gear such that the three trigonal prisms of odd numbers are rotated; and second trigonal prism turning gears engaged at intervals of 120° with said second trigonal prism power transmission gear such that the other trigonal prisms of even numbers are rotated.

5. The trigonal prism turning display device according to claim 1, wherein each of said first trigonal prism turning gears is fixed with a disc-shaped connecting member at the top end of the shaft thereof and each of said disc-shaped connecting members is secured on the bottom surface of the one side of each of said three trigonal prisms of the odd numbers at the central upper surface thereof, such that said three trigonal prisms of the odd numbers are rotated as said first trigonal prism turning gears are rotated, and each of said second trigonal prism turning gears is fixed with a disc-shaped connecting member at the top end of the shaft thereof, and each of said

disc-shaped connecting members is secured on the bottom surface of the one side of each of said other trigonal prisms of the even numbers on the central upper surface thereof, such that said other trigonal prisms of the even numbers are rotated as said second trigonal prism turning gears are rotated.

6. The trigonal prism turning display device according to any one of claims 1 to 5, wherein each of said six trigonal prisms is made of glass, acryl, or aluminum such that it has a hollow part in the interior thereof and has a product display stand in one side among the three sides thereof.

7. The trigonal prism turning display device according to claim 6, wherein said hollow part has lighting equipment therein.